

CLAIMS

What is Claimed is:

1. In a system serially including a compressor, a discharge line, a condenser, an expansion device, an evaporator and a suction line, means for achieving capacity control comprising:
2. a solenoid valve in said suction line;
3. means for rapidly pulsing said solenoid valve whereby the rate of flow
4. in said suction line to said compressor is modulated.

1. 2. The capacity control of claim 1 further including a fluid path
2. connected to said compressor at a location corresponding to an intermediate point of
3. compression in said compressor.

1. 2. 3. The capacity control of claim 2 further including:
4. a bypass line connected to said fluid path and said suction line;
5. a solenoid valve in said bypass line;
6. means for rapidly pulsing said solenoid valve in said bypass line
7. whereby the rate of flow of bypass to said suction line is modulated.

1. 2. 3. 4. The capacity control of claim 3 further including;
5. an economizer circuit connected to said fluid path;
6. a solenoid valve in said economizer circuit; and
7. means for rapidly pulsing said solenoid valve in said economizer
8. circuit whereby the rate of economizer flow to said compressor is modulated.

1. 2. 5. The capacity control of claim 2 further including;
3. an economizer circuit connected to said fluid path;

3 a solenoid valve in said economizer circuit; and
4 means for rapidly pulsing said solenoid valve in said economizer
5 circuit whereby the rate of economizer flow to said compressor is modulated.

1 6. In a system serially including a compressor, a discharge line, a
2 condenser, an expansion device, an evaporator and a suction line, means for achieving
3 capacity control comprising:

4 a fluid path connected to said compressor at a location corresponding
5 to an intermediate point of compression in said compressor;
6 a bypass line connected to said fluid path and said suction line;
7 a solenoid valve in said bypass line;
8 means for rapidly pulsing said solenoid valve in said bypass line
9 whereby the rate of flow of bypass to said suction line is modulated.

1 7. The capacity control of claim 6 further including;
2 an economizer circuit connected to said fluid path;
3 a solenoid valve in said economizer circuit; and
4 means for rapidly pulsing said solenoid valve in said economizer
5 circuit whereby the rate of economizer flow to said compressor is modulated.

1 8. In a system serially including a compressor, a discharge line, a
2 condenser, an expansion device, an evaporator and a suction line, means for achieving
3 capacity control comprising:

4 a fluid path connected to said compressor at a location corresponding
5 to an intermediate point of compression in said compressor;
6 an economizer circuit connected to said fluid path;
7 a solenoid valve in said economizer circuit; and

- ~~means for rapidly pulsing said solenoid valve in said economizer circuit whereby the rate of economizer flow to said compressor is modulated.~~

7 add a^3